



Maximizing Access to Research Careers at NMSU

Training tomorrow's scientists at NMSU since 1977.

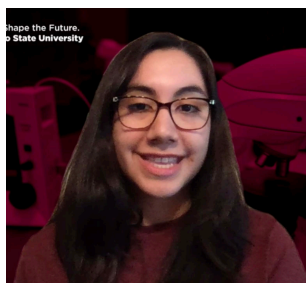
OBJECTIVE: The primary objective of the MARC U-STAR training program is to increase the number of highly trained biomedical and behavioral scientists belonging to underserved populations in leadership positions to positively impact and address health-related research and health disparities. To achieve this overarching objective, the program supports the academic preparedness and research training of undergraduate students to successfully enter a doctoral program (or combined degrees like M.D./Ph.D.) in the biomedical and bio-behavioral related research disciplines.

WHAT MARC FELLOWS DO AND RECEIVE:

- Partner with a faculty mentor and learn to perform research in their lab for up to two years.
- Attend and present research at national professional conferences in their field all over the country.
- Participate in advanced GRE preparation and training.
- Attend workshops on the use of cutting-edge technology.
- Obtain honors credits by enrolling in a MARC research and graduate school preparation course each semester.
- Meet outstanding researchers from leading institutions and graduate programs.
- Participate in summer research at leading research-intensive institutions around the country
- Receive academic and financial support.

WHO CAN APPLY:

- Juniors and Senior undergraduate students with two years remaining to complete their major.
- Must be currently enrolled in at least 15 credits and must have completed 60 credit hours
- Students that have a minimum overall GPA of 3.2.
- Juniors and Seniors with two years left in the bachelor's degree and who are interested in engaging in biomedical or biomedical-related research (ie basic research; behavioral). All undergraduate majors are encouraged to apply **provided that** their goal is to pursue a doctorate degree in a biomedical discipline upon graduation. Majors may include Chemistry, Biology, Chemical Engineering, Plant/Environmental Sciences, Kinesiology, Anthropology, Public Health, Biostatistics, etc.



For more information and an application:
 CALL the MARC Program @ (575) 646-7145
 STOP by the office in Foster Hall Room 465
 EMAIL Mary Jo Ruthven: mruthven@nmsu.edu

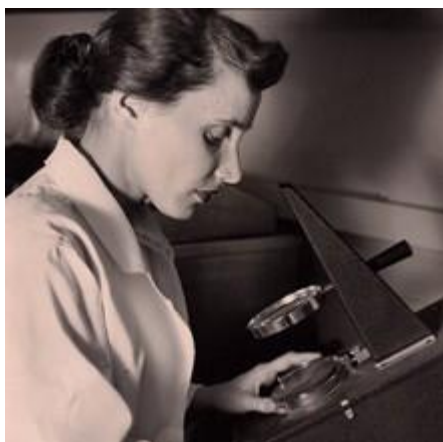
Selections are made once a year at the end of the Spring semester.

MARC AS PART OF THE *Kirschstein-NRSA PROGRAM*

MARC is one of several training mechanisms under the NIH Ruth L. Kirschstein National Research Service Award (NRSA) Program, which has as its overall goal to help ensure that a diverse pool of highly trained scientists is available in appropriate scientific disciplines to address the Nation's biomedical, behavioral, and clinical research needs.

The Kirschstein-NRSA program is conducted in compliance with applicable laws that provide that no person shall, on the grounds of race, color, national origin, handicap, or age, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity (or, on the basis of sex, with respect to any education program or activity) receiving Federal assistance. This program honors the work and contributions of Dr. Ruth L. Kirschstein to biomedical research and her efforts to provide research opportunities to all students, especially those belonging to underrepresented population in the biomedical sciences.

Always There: The Remarkable Life of Ruth Lillian Kirschstein, M.D.



There are very few people who have such a profound impact on their professions that the telling of their life story is also a recounting of the history of their time and place. Ruth L. Kirschstein, M.D., who provided direction and leadership to the National Institutes of Health (NIH) through much of the second half of the 20th century, was one such person. At a moment in time when professional service to the government is often not given the respect it deserves, the story of Ruth's life, and the positive effect she had on public policy, public health, and the training of several generations of biomedical researchers, should inspire those considering public service and give great satisfaction to those currently serving the nation and the world.

Ruth Kirschstein was the daughter of immigrant parents who weathered the disgraceful prejudice and stereotyping of women and Jews, which would have prevented her professional contributions if not for her perseverance and hard work. She went on to become a key player in the development of a safe and effective polio vaccine, the first woman director of a major institute at the NIH, and a champion of the importance of basic biomedical research and training programs that provided opportunity to all talented students, especially underrepresented minority students.

She was both a guiding force and witness to much of the drama that NIH research brought to the public's attention: the polio vaccine, the Women's Health Initiative, recombinant DNA research, congressional budget hearings, and the eventual strong bipartisan support that the NIH now enjoys from both houses of Congress. In an engaging and informal account of Ruth's life, Alison Davis brings out the humanity and the strength of character that enabled the success of this remarkable public servant.

Michael M. Gottesman, M.D.

NIH Deputy Director for Intramural Research Bethesda, Maryland

MARC FELLOWSHIP APPLICATION

Please read this application completely before starting the process.

Minimum eligibility requirements: currently enrolled in at least 15 credit hours; at least junior status by next semester with 2 years remaining before graduation; minimum 3.2 GPA; majoring in agronomy, animal science, biochemistry, bioinformatics (CS), biology, chemistry, chemical engineering, environmental science, genetics, horticulture, molecular biology, physics, mathematics, range science or wildlife science, etc.

Today's Date ____/____/____

*If you meet these minimum requirements, please read all sections of this application carefully and fill out completely. **Incomplete applications will not be considered.** Please print legibly.*

1. PERSONAL INFORMATION

| | | | | |
|----------------------|-------------|---|--|--|
| Last Name | First | Middle | <input type="checkbox"/> Mr. <input type="checkbox"/> Miss <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms. | Maiden Name |
| Banner ID | Citizenship | <input type="checkbox"/> U.S. Citizen or U.S. Non-citizen National <input type="checkbox"/> Permanent Resident of U.S. | | Birth Date / / Sex <input type="checkbox"/> M <input type="checkbox"/> F |
| Local Street Address | City | State | Zip Code | Local Phone No. <input type="checkbox"/> Home () <input type="checkbox"/> Mobile |
| Parent's Name | Address | City | State | Zip Code Parent's Phone No. () |

At which of the above addresses will you be able to receive mail at the end of May or December (depending on when you are applying)?
☐ Local ☐ Parent's

| | | | | | |
|----------------------|---------|------|-------|----------|---------------------------|
| Your Employer's Name | Address | City | State | Zip Code | Employer Phone No. () |
|----------------------|---------|------|-------|----------|---------------------------|

e-mail address that you check most regularly:

While the following information is optional, if you are accepted into the MARC Program it will be needed to complete the Statement of Training Appointment form that we are required to forward to National Institutes of Health (the funding source for the MARC Program) as part of your appointment process.

| | | |
|--|---|---|
| What is your racial background? <input type="checkbox"/> American Indian or Alaska Native <input type="checkbox"/> Black or African American | <input type="checkbox"/> Native Hawaiian or other Pacific Islander <input type="checkbox"/> Asian <input type="checkbox"/> White | Are you Hispanic (or Latino)? <input type="checkbox"/> Yes <input type="checkbox"/> No |
|--|---|---|

Do you have a documented physical or mental disability? ☐ Yes ☐ No Are you economically disadvantaged? ☐ Yes ☐ No How

did you hear about ☐ Family ☐ Friend ☐ Work ☐ Mail or email ☐ Professor _____
the MARC Program? ☐ High School Presentation (please indicate high school) _____ ☐ Other _____

2. ACADEMIC INFORMATION

| | | | |
|---|---|---|---|
| What is your academic major (list all)? | Minor (list all)? | Anticipated graduation date and degree? | Current Classification (Circle One): Sophomore Junior Senior |
| Total academic hours: | Cumulative GPA (do not round): | | |
| Have you taken the GRE? <input type="checkbox"/> Yes <input type="checkbox"/> No | If not, when do you plan to take it? | | |
| Have you taken the MCAT? <input type="checkbox"/> Yes <input type="checkbox"/> No | If not, when do you plan to take it? | | |
| Are you enrolled for a minimum of 15 credit hours on main campus? <input type="checkbox"/> Yes <input type="checkbox"/> No | What other sources of financial aid do you currently have? (If accepted, the MARC award may affect your financial aid award). | | |

3. MENTOR INTERVIEWS

In order for your application to be complete, you must **FIRST** interview with the Program Directors, **Dr. Graciela Unguez &/or Dr. Ivette Guzman**. Following the initial interview, you must talk to a minimum of six (6) of the professors listed below about laboratory activities. Please see our website (marc.nmsu.edu) for information on all mentor research before setting up

| DIRECTOR | DEPT | PHONE | INITIALS | DATE | THIS APPLICATION IS NOT VALID WITHOUT THE APPROVAL (INITIALS) OF ONE OF THE PROGRAM DIRECTORS. | | | | |
|---------------------------------|----------------------|-----------------|----------|------|--|---------------|----------|----------|------|
| G. Unguez/ I. Guzman | Biology/Plant | 646-7145 | | | | | | | |
| MENTOR | DEPT | PHONE | INITIALS | DATE | MENTOR | DEPT | PHONE | INITIALS | DATE |
| C. Aiken | Kines/MB | 646-1769 | | | K. Mabry | Biology | 646-2633 | | |
| A. Abdelkefi | Mech/Aero Eng | 646-6546 | | | | | 646- | | |
| A. Ashley | Chem/Biochem | 646-4135 | | | S. Martinez-Montea | gudo F&ConSci | 646-1185 | | |
| R. Ashley | Anim Rg Sci | 646-4135 | | | B. Milligan | Biology | 646-7980 | | |
| D. Bailey | Biology | 646-7012 | | | | | 646- | | |
| W. Boeing | F & WS | 646-1707 | | | K. Olszowyt | Bio Anthro | 646-5935 | | |
| C. Brewer | Chem Engin | 646-8637 | | | T. Orr | Biology | 646-3111 | | |
| | | 646- | | | R. Palacios | Pub Health | 646-4309 | | |
| KC Carroll | Plant/Env Sci | 646-5929 | | | N. Pietrasiak | Plant/En Sci | 646-1910 | | |
| M. Castillo | Biology | 646-7664 | | | A. Romero-Olivares | Bio/Microbio | 646-3265 | | |
| N. Chanover | Astronomy | 646-2567 | | | L. Sabillon | F & Con Sci | 646-1766 | | |
| R. Creamer | EPPWS | 646-3068 | | | S. Sandoval | Elec. Eng | 646-3115 | | |
| J. Curtiss | Biology | 646-5611 | | | S. Sanogo | EPPWS | 646-3577 | | |
| C. Gard | BioStats | 646-5500 | | | E. Scholljegerdes | Anim Rg Sci | 646-1750 | | |
| K. Hanley | Biology | 646-4583 | | | B. Schutte | EPPWS | 646-7082 | | |
| O. Holguin | Plant/Env.Sci | 646-5913 | | | M.A. Scott | Med. Anthro | 646-5935 | | |
| J. Houston | Chem Engin | 646-5563 | | | B. Shuster | Biology | 646-1325 | | |
| K. Houston | Chem/Biochem | 646-3918 | | | G. Smith | Biology | 646-6080 | | |
| E. Indriolo | Biology | 646-2175 | | | J. Song | Cmptr. Sci. | 646-4299 | | |
| S. Jeon | Econ/App Stat | 646-2607 | | | B. Stringam | EPPWS | 646-7665 | | |
| S. Lee | Kinesiology | 646-2216 | | | P. Trainor | Chem/App Stat | 646-2822 | | |
| D. Lozada | Plant/Env.Sci | 646-5171 | | | A. Ulery | Plant/Env.Sci | 646-2219 | | |
| H. Luo | Chem Engin | 646-4204 | | | T. Wright | Biology | 646-1136 | | |
| S. Lusetti | Chem/Biochem | 646-6016 | | | J. Xu | Biology | 646-7713 | | |
| B. Lyons | Chem/Biochem | 636-4072 | | | E. Yuki | Chem/Biochem | 646-3176 | | |

4. PLEASE INDICATE THE FIRST **FOUR** CHOICES YOU WOULD LIKE FOR A LAB MENTOR:

| | |
|------------------------|--|
| 1 st Choice | |
| 2 nd Choice | |
| 3 rd Choice | |
| 4 th Choice | |

5. PLEASE ATTACH A CURRENT **UNOFFICIAL** ACADEMIC TRANSCRIPT TO THIS APPLICATION.

PLEASE WRITE A ONE-TWO PAGE STATEMENT THAT INCLUDES THE FOLLOWING:

- A SUMMARY OF YOUR UNDERGRADUATE AND POST-GRADUATE ACADEMIC GOALS
- A DETAILED EXPLANATION OF HOW YOU WILL CONTRIBUTE TO THE ATTAINMENT OF THE PRIMARY MARC PROGRAM GOALS (SEE 1ST SHEET)
- AN INDICATION OF WHAT ABILITIES YOU WILL BRING TO THE MARC PROGRAM
- A DESCRIPTION OF ANY PAST EXPERIENCE, SUCH AS PARTICIPATION IN SCIENCE PROJECTS, OR WORK EXPERIENCE WHICH MAY BE RELEVANT TO PURSUIT OF A CAREER IN BIOMEDICAL RESEARCH

**This application will not be considered if it is not filled out completely.
THANK YOU FOR APPLYING. REMEMBER TO KEEP YOUR APPLICATION CURRENT.**

Applicant's Signature: _____ Date: _____